MOBILE APP DEVELOPMENT-DAY-1

BASICS OF MOBILE DEVELOPMENT

What is iOS & Android?

iOS:

1.iOS is a mobile operating system developed by Apple Inc. At frst it is called as Iphone os.

2. It is the operating system that powers Apple's mobile devices, including the iPhone, iPad, and iPod Touch.

3. iOS was initially released in 2007 with the launch of the original iPhone.

4. iOS has a strong focus on user experience, security, and performance.

5. The App Store is Apple's official platform for distributing iOS applications.

6.iOS developers use the Swift and Objective-C programming languages to create applications.

7.Siri is Apple's virtual assistant that is integrated into iOS. It allows users to interact with their device using voice commands.

8.iOS is known for its strong security features, including data encryption, secure boot process, Touch ID (fingerprint recognition), and Face ID (facial recognition).

9.Developers use Xcode, Apple's integrated development environment (IDE), to create iOS applications.

10. It is Unix like operating system uses Darwin(BSD[Berkeley software Distribution])Unix os. It is developed using C,C++,OBJECTIVE C,Swift and assembly language.

11. safari the default internet browser .

12. Updates are in the form of software update-update typically refers to the process of updating individual applications.

13. The latest version of iOS was released on 2023 17-sept - 17.1 and 17.2beta 1.

14. The Latest stable release version: iOS 15.3.1 and iPadOS 15.3.1

15. It is the world’s second most used mobile operating system after Android.

Android:

1. Android is a mobile operating system developed by Google. It's one of the most widely used operating systems in the world, powering billions of smartphones, tablets, and other devices.
2. Android, Inc. was founded in 2003 and Google acquired Android, Inc. in 2005.The first public Android Beta Version 1.0 was finally published on 5th November 2007.
3. Android 1.0 (API 1) was launched on the 23rd Of September 2008. It was incorporated into the HTC Dream smartphone (aka T-mobile G1 in the US). It thus became the first-ever Android device.
4. Android is built on the Linux kernel and is open-source. This means that the source code is freely available which has led to its widespread adoption.
5. Android provides a highly customizable user interface, which allows users to personalize their devices with widgets, live wallpapers, and various themes.
6. Android apps are written primarily in Java or Kotlin, with the Android Software Development Kit (SDK) providing the necessary tools for app development.
7. The Google Play Store is the primary platform for distributing Android apps, although apps can also be installed from other sources.
8. Android devices come with various Google services, such as Google Maps, Gmail, Google Drive, and Google Assistant, which are tightly integrated into the system.

9.Chrome the default internet browser.

10. A system software update, on the other hand, focuses on updating the core operating system of a computing device.

11. The version

The latest version is Android 14-Upside Down Cake[27] released on 14-October 4, 2023

Android 15 -Vannila icecream -this is going to release.

What is Dart?

1.Dart is a programming language that was developed by Google. It was officially announced by Google in 2011.

2. Dart is a general-purpose, object-oriented programming language and statically typed language.

3. Dart supports both JIT(Just-In-Time) and AOT(Ahead-Of-Time) compilation.

4. One of the most prominent use cases for Dart is with the Flutter framework .

5. Dart's use in the Flutter framework makes it well-suited for cross-platform development, where a single codebase can be used to create apps for various platforms, including Android, iOS, web, and desktop.

What is Flutter?

1. Flutter is an open-source UI (User Interface) toolkit and framework developed by Google for building natively compiled applications for mobile, web, and desktop from a single codebase.
2. Flutter is known for its fast development, expressive and flexible UI, and cross-platform capabilities.
3. Flutter provides a "hot reload" feature, which allows developers to instantly see the results of their code changes in the running app without having to restart the application.
4. Flutter offers a rich set of widgets and a flexible design system that enables developers to create highly customized and expressive user interfaces.
5. Everything in Flutter is a widget, from the smallest visual elements to entire screens.
6. Flutter provides design elements and themes to create both Android Material Design and iOS Cupertino-style applications, ensuring that your app looks and feels natural on each platform.
7. Flutter has a rich ecosystem of packages and libraries available through the Dart Package Manager (pub.dev). These packages can be used to extend the functionality of your app.